CLAIMS -

What is claimed is:

1. A leadframe-based non-leaded semiconductor package, which comprises:

a leadframe having a centrally-located paddle portion and a peripherally-located lead portion surrounding the paddle portion, and wherein the paddle is formed with a recessed portion to a predetermined depth in one surface thereof;

at least one semiconductor chip mounted in the recessed portion of the paddle portion of the leadframe;

a set of bonding wires for electrically coupling the semiconductor chip to the lead portion of the leadframe; and

an encapsulation body for encapsulating the semiconductor chip and the bonding wires while exposing a surface of the lead portion of the leadframe.

- 2. The leadframe-based non-leaded semiconductor package of claim 1, wherein the recessed portion in the paddle portion of the leadframe is formed through a half-etch process.
- 3. The leadframe-based non-leaded semiconductor package of claim 1, wherein the bonding wires are gold wires.
- 4. The leadframe-based non-leaded semiconductor package of claim 1, wherein the leadframe is further formed with stepped portions in the paddle portion and the lead portion thereof.
- 5. A method for fabricating a leadframe-based non-leaded semiconductor package, comprising the steps of:

- (1) preparing a leadframe having a centrally-located paddle portion and a peripherally-located lead portion surrounding the paddle, and wherein the paddle is formed with a recessed portion to a predetermined depth in one surface thereof;
- (2) mounting at least one semiconductor chip in the recessed portion of the paddle portion of the leadframe;
 - (3) electrically coupling the semiconductor chip to the leadframe; and
- (4) forming an encapsulation body for encapsulating the semiconductor chip while exposing a surface of the lead portion of the leadframe.
- 6. The method of claim 5, wherein in said step (1), the recessed portion in the paddle portion of the leadframe is formed through a half-etch process.
- 7. The method of claim 5, wherein in said step (1) the leadframe is further formed with stepped portions in the paddle portion and the lead portion thereof.
- 8. The method of claim 5, wherein in said step (3), the semiconductor chip is electrically coupled to the leadframe by means of a set of bonding wires through a wirebonding process.
- 9. The method of claim 8, wherein the bonding wires are gold wires.

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